

# EAST Search History

10/809,974

| Ref # | Hits   | Search Query                               | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|--|---|------------------|---------|------------------|
| S1    | 929150 | gate                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/25 17:16 |
| S2    | 28523  | high adj2 (k or (dielectric adj constant)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/05 15:07 |
| S3    | 1058   | buffer near3 dielectric                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/01 17:21 |
| S4    | 125853 | threshold near3 voltage                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/25 19:00 |
| S5    | 26     | S1 same S2 same S3                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/01 16:47 |
| S6    | 12     | S4 and S5                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/01 16:59 |
| S7    | 14     | S5 not S6                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/01 18:06 |
| S8    | 2818   | 257/295                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/01 17:13 |
| S9    | 1618   | 257/310                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/01 17:13 |
| S10   | 1433   | 257/368                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/04/01 17:13 |

## EAST Search History

|     |      |                                   |   |    |    |                  |
|-----|------|-----------------------------------|---|----|----|------------------|
| S11 | 1077 | 257/410                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:13 |
| S12 | 1032 | 257/411                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:13 |
| S13 | 6417 | S8 or S9 or S10 or S11 or S12     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:13 |
| S14 | 26   | S1 same S2 same S3                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:14 |
| S15 | 78   | S2 same S3                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:14 |
| S16 | 5216 | "16" and S13                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:14 |
| S17 | 21   | S15 and S13                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:14 |
| S18 | 10   | S17 not (S6 or S7)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:19 |
| S19 | 4    | buffer near4 nitrogen near4 doped | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:20 |
| S20 | 5    | S3 near10 nitrogen                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 17:21 |
| S21 | 4419 | S9 S9 or S10 or S11 or S12        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 18:06 |

## EAST Search History

|     |      |                         |   |    |    |                  |
|-----|------|-------------------------|---|----|----|------------------|
| S22 | 4419 | S9 or S10 or S11 or S12 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 18:07 |
| S23 | 1224 | S2 and S22              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 18:07 |
| S24 | 24   | S3 and S23              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 18:07 |
| S25 | 9    | S24 not S17             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/01 18:07 |
| S26 | 1058 | buffer near3 dielectric | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04 08:19 |
| S27 | 53   | hf02                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04 08:19 |
| S28 | 3560 | al203                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04 08:20 |
| S29 | 0    | S26 same S27            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04 08:20 |
| S30 | 0    | S26 same S28            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04 08:20 |
| S31 | 12   | S26 same hf             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04 08:20 |
| S32 | 41   | S26 same al             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/04 08:20 |

## EAST Search History

|     |       |  |   |    |    |                  |
|-----|-------|--|---|----|----|------------------|
| S33 | 1059  | buffer near3 dielectric                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/05 15:06 |
| S34 | 28564 | high adj2 (k or (dielectric adj constant)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/05 15:08 |
| S35 | 78    | S33 same S34                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/05 15:08 |
| S36 | 139   | 438/454                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/06 11:40 |
| S37 | 780   | 438/121                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2005/04/06 11:41 |
| S38 | 3701  | 257/295                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:16 |
| S39 | 2034  | 257/310                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:16 |
| S40 | 1750  | 257/368                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:16 |
| S41 | 1363  | 257/410                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:16 |
| S42 | 1299  | 257/411                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:16 |
| S43 | 8171  | S38 or S39 or S40 or S41 or S42            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:16 |

## EAST Search History

|     |       |                                   |   |    |    |                  |
|-----|-------|-----------------------------------|---|----|----|------------------|
| S44 | 8171  | S43                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:16 |
| S45 | 8     | buffer near4 nitrogen near4 doped | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:16 |
| S46 | 8     | S45                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:17 |
| S47 | 1258  | buffer near3 dielectric           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:17 |
| S48 | 54    | S47 same al                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:17 |
| S49 | 54    | S48                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 17:27 |
| S50 | 2     | "20050202659"                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:18 |
| S51 | 49976 | high adj2 dielectric              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:19 |
| S52 | 22943 | concentration near3 gradient      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:19 |
| S53 | 22    | S51 same S52                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:29 |
| S54 | 1819  | buffer same S52                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:29 |

## EAST Search History

|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S55 | 1      | S47 same S52                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:30 |
| S56 | 14     | S47 and S52                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:49 |
| S57 | 138627 | gate near3 (dielectric or insulat\$)       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:31 |
| S58 | 238    | S57 same S52                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:31 |
| S59 | 77     | S57 near10 S52                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:41 |
| S60 | 267    | S51 near10 interfacial                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:41 |
| S61 | 20007  | diffusion adj barrier                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:49 |
| S62 | 40     | S52 near10 S61                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:52 |
| S63 | 94     | S52 same S61                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:52 |
| S64 | 25     | S63 and ("438"/\$.ccls. or "257"/\$.ccls.) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:58 |
| S65 | 36993  | PMOS same NMOS                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:58 |

## EAST Search History

|     |     |                 |   |    |    |                  |
|-----|-----|-----------------|---|----|----|------------------|
| S66 | 506 | hfo2 same al2o3 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:59 |
| S67 | 0   | S65 same S66    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 18:59 |
| S68 | 27  | hf near7 NMOS   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 19:05 |
| S69 | 431 | al near7 PMOS   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 19:05 |
| S70 | 3   | S68 and S69     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/25 19:05 |